

## 200–240V 6000VA 6000W On-Line Double-Conversion UPS, Unity Power Factor, Hardwire In, HW/C19/C13 Out, 3U

MODEL NUMBER: SU6KRT3UG



On-line double-conversion UPS provides pure sine wave AC output to server and network equipment in data centers and computer rooms.

### Features

#### Protects Mission-Critical Rack-Mounted Equipment against Damage, Downtime and Data

**LossSmartOnline®** SU6KRT3UG Unity Power Factor UPS system protects connected equipment against damage, downtime and data loss due to power outages, voltage fluctuations and transient surges. Unity Power Factor design enables full 6000VA / 6000W output capacity. In double-conversion mode, this UPS system maintains perfect output by continuously converting AC input to DC, then reconverting UPS output to fully regulated sine wave AC with  $\pm 1\%$  voltage regulation and zero transfer time between online and battery modes. Featuring true on-line, double-conversion operation, SU6KRT3UG provides the highest level of UPS power protection for critical server, network and telecom equipment.

**Reliable, Expandable Battery Backup** UPS battery backup keeps connected equipment operational through short power failures, and provides time to save data and perform an orderly system shutdown in case of a prolonged blackout. The internal battery set provides 8.5 minutes of support at half load and 3 minutes at full load. During normal operation, incoming utility power keeps the battery fully charged so backup power will be available when needed. Advanced temperature-controlled battery charge management system provides efficient recharge and enhanced battery lifespan. For mission-critical applications demanding continuous uptime, the 6kVA UPS can provide expandable runtime with optional BP192V12RT3US external battery pack (sold separately). Battery-independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries.

**Economy Mode Helps the Environment and Your Cash Flow** Operates with  $>98\%$  full-load efficiency in optional economy mode significantly reducing BTU heat output and operating energy costs.

**Intuitive Front-Panel Interface offers Convenient Monitoring** Front-panel LEDs indicate line power, AC output, On-battery mode, and Fault conditions. The LCD readout with scroll controls supports visual monitoring of a variety of control options to support advanced UPS settings and configurations. The panel rotates for comfortable viewing in rack-mount or tower configuration.

**Pre-installed WEBCARDLXMINI Network Interface Offers 24/7 Access** Pre-installed Java-free HTML5-based WEBCARDLXMINI interface enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network. Automated alerts help

### Highlights

- Unity (1.0) power factor equalizes VA and wattage to safely support more equipment
- Zero transfer time between on-line and battery modes for uninterrupted operation
- Optional external battery packs provide additional runtime for applications requiring it
- Pre-installed WEBCARDLXMINI network interface supports Auto Probe feature
- ENERGY STAR-certified to save electricity, lower costs and protect the environment

### Applications

- Delivering perfectly regulated sine wave output to mission-critical equipment
- Protecting connected components from dangerous surges, spikes and line noise
- Keeping equipment operational through short power failures
- Allowing time to save data and safely shut down components in case of a prolonged blackout

### Package Includes

- On-line double-conversion UPS
- Pre-installed WEBCARDLXMINI network management card
- (2) Hardwire strain reliefs
- USB cable
- RS-232 cable
- Rack-mounting hardware
- Owner's manual

prevent accidental overloads, power loss and downtime. Advanced Communications Ports USB and DB9 ports with included cabling enable data-saving unattended shutdown of connected systems when used with free downloadable PowerAlert® software. Capabilities include detailed monitoring of load levels, self-test data and utility power conditions. DB9 ports also support basic contact-closure monitoring to report On-battery and Low-battery status for legacy systems.

**Versatile Installation Options** Hardware is included for mounting the complete 6kVA UPS system with internal batteries in 3U of space in an EIA-standard 19-inch 4-post rack. Use the optional 2POSTRMKITHD for 2-post rack mounting or the optional 2-9USTAND for mounting in an upright tower position.

**2-Year Warranty, \$250K Ultimate Lifetime Insurance and Environmentally Responsible Design** The SU6KRT3UG comes with a 2-year warranty and \$250,000 of Ultimate Lifetime Insurance for any connected components damaged by a power surge (U.S., Canada and Puerto Rico only). It's manufactured in compliance with strict RoHS specifications, reflecting commitment to environmental responsibility.

## Specifications

| OVERVIEW                           |                                                                                                                                                                                                                                                                               |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UPC Code                           | 037332223319                                                                                                                                                                                                                                                                  |
| UPS Type                           | On-Line                                                                                                                                                                                                                                                                       |
| INPUT                              |                                                                                                                                                                                                                                                                               |
| Input Phase                        | Single-Phase                                                                                                                                                                                                                                                                  |
| Rated input current (Maximum Load) | Hardwire AC input: 32A (200V), 30.7A (208V), 29A (220V), 27.8A (230V), 26.6A (240V) maximum; Max inrush current: 100A                                                                                                                                                         |
| Nominal Input Voltage(s) Supported | 200V AC; 208V AC; 220V AC; 230V AC; 240V AC                                                                                                                                                                                                                                   |
| Nominal Input Voltage Description  | 208V factory default                                                                                                                                                                                                                                                          |
| UPS Input Connection Type          | Hardwire                                                                                                                                                                                                                                                                      |
| UPS Input Connection Description   | Hardwire input supports 3 wire L1, L2/N, PE(GND) input configurations                                                                                                                                                                                                         |
| Input Current                      | 50 / 60 Hz                                                                                                                                                                                                                                                                    |
| Power Factor (Input)               | 0.98 minimum (full load, nominal input voltage)                                                                                                                                                                                                                               |
| THDi                               | <8% full load; <10% half load                                                                                                                                                                                                                                                 |
| OUTPUT                             |                                                                                                                                                                                                                                                                               |
| Output Capacity (VA)               | 6000                                                                                                                                                                                                                                                                          |
| Output Capacity (kVA)              | 6                                                                                                                                                                                                                                                                             |
| Output Capacity (Watts)            | 6000                                                                                                                                                                                                                                                                          |
| Output Capacity (kW)               | 6                                                                                                                                                                                                                                                                             |
| Output Capacity Details            | Inverter supports up to 104% load continuously, Up to 125% / 150% for 1.0 / 0.5 min. before bypass transfer (when available) or shutdown; Loads greater than 150% trigger immediate shutdown; AC TRANSIENT RESPONSE: ±1.5% RMS of initial value (between 10% & 90% load step) |
| Power Factor                       | 1.0                                                                                                                                                                                                                                                                           |

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crest Factor                               | 3:1 maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Nominal Voltage Details                    | Nominal output voltage selection is available via front panel LCD interface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Frequency Compatibility                    | 50 / 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Frequency Compatibility Details            | MAX-QUALITY/MAX-EFFICIENCY/AUTO-ADAPTIVE MODES: Output frequency matches input nominal on startup and tracks input frequency up to $\pm 3$ Hz of nominal; When input frequency is greater than $\pm 3$ Hz of nominal, output frequency is inverter regulated to $\pm 0.5$ Hz of nominal; BATTERY MODE: Output frequency is inverter regulated to $\pm 0.5$ Hz of the configured nominal output frequency; FREQUENCY CONVERSION MODE: Output is inverter regulated to the selected 50/60Hz output setting with $\pm 0.5$ Hz regulation (de-rates to 70% capacity, bypass not available); FREQUENCY REGULATION MODE: Enables frequency correction to $\pm 0.5$ Hz of the frequency sensed by the UPS on startup (no de-rating, bypass is available when input frequency is within $\pm 0.5$ Hz of output) |
| Load Management Receptacles                | Three built-in switchable output load banks; BANK 1 (Set of 2 C19 outlets); BANK 2 (Set of 2 C19 outlets); BANK 3 (Set of 4 C13 outlets)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Output Circuit Breakers                    | Two 16A double-pole breakers protect 2 C19 outlets each; 10A double-pole breaker protects 4 C13 outlets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Output AC Waveform (AC Mode)               | Pure Sine wave                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Output AC Waveform (Battery Mode)          | Pure Sine wave                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Nominal Output Voltage(s) Supported        | 200V; 208V; 220V; 230V; 240V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Output Receptacles                         | (4) C13; (4) C19; Hardwire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Output Voltage Regulation                  | $\pm 1\%$ Inverter output; $\pm 10\%$ Economy mode; $\pm 15\%$ Bypass mode (configurable from $\pm 5\%$ to $\pm 20\%$ ); Output voltage THD $< 2\%$ (full load) / $< 3\%$ (half load)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Individually Controllable Load Banks       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>BATTERY</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Battery Type                               | Valve Regulated Lead Acid (VRLA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Runtime Full Load (min.)                   | 3 min. (6000W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Runtime Half Load (min.)                   | 8.5 min. (3000W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Expandable Runtime                         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Expandable Runtime Description             | Up to 4 external battery packs with sensor cabling are automatically sensed and configured for advanced temperature controlled charging and accurate runtime reporting; Configurations using 5-10 external battery packs are supported, but may require the use of Tripp Lite's EXTERNAL BATTERY CONFIGURATION software for full integration                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| External Battery Pack Compatibility        | <a href="https://tripplite.eaton.com/External-Battery-Pack-192V-3U-Rack-Tower-BP192V12RT3US">BP192V12RT3US</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DC System Voltage (VDC)                    | 192                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Battery Recharge Rate (Included Batteries) | 3 hours from 10% to 90% (typical, internal batteries with full load discharge); Charge settings: 1.5A (internal batteries) / 2A (with external battery packs) configures automatically; Supports temperature compensated battery charging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Battery Access                             | Front panel battery access door                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Internal UPS Replacement Battery Cartridge | <a href="https://tripplite.eaton.com/UPS-Replacement-192VDC-Battery-Cartridge-3U-RBC58-3US">RBC58-3US</a> (qty 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Battery Replacement Description            | Hot-swappable, user replaceable internal batteries and external battery packs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>VOLTAGE REGULATION</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Voltage Regulation Description             | $\pm 1\%$ Inverter output regulation; $\pm 10\%$ in optional Eco mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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| Overvoltage Correction                                        | Corrects overvoltages as high as 275V                                                                                                                                                                                                                                                                                                                                                                                                               |
| Undervoltage Correction                                       | Corrects undervoltages as low as 156V (100% load) / 100V (50% load); derates linearly                                                                                                                                                                                                                                                                                                                                                               |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Front Panel LCD Display                                       | Selectable LCD display with Escape, Page Up, Page Down, Enter and Power buttons enable UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats (see manual)                                                                                                                                                                                                                                            |
| Switches                                                      | Includes main power off/on switch, plus Up, Down, Enter and Esc switches to set and execute LCD functions.                                                                                                                                                                                                                                                                                                                                          |
| Alarm Cancel Operation                                        | Alarm cancel switch                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Audible Alarm                                                 | Unique audible alarms for all major UPS, environmental and power conditions (see manual)                                                                                                                                                                                                                                                                                                                                                            |
| LED Indicators                                                | 4 front-panel LEDs indicate AC input, AC output, Battery mode and Fault conditions                                                                                                                                                                                                                                                                                                                                                                  |
| <b>SURGE / NOISE SUPPRESSION</b>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| UPS AC Suppression Joule Rating                               | 1680                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| UPS AC Suppression Response Time                              | Instantaneous                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| EMI / RFI AC Noise Suppression                                | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>PHYSICAL</b>                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Primary Form Factor                                           | Rackmount                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rack Height                                                   | 3U                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cooling Method                                                | Load and thermal controlled cooling fans; Field-replaceable (92mm x 38mm, ball-bearing, 115 CFM)                                                                                                                                                                                                                                                                                                                                                    |
| Included Mounting Accessory Description                       | Includes 4 post rackmount installation accessories; Included mounting brackets support front-to-rear rail distances of 520 to 914.4mm (20.5 to 36 in.); Enclosures require a minimum depth of 780 mm (30.7 in.) from the front rails to the closed rear door                                                                                                                                                                                        |
| Installation Form Factors Supported with Included Accessories | 4 post 19 inch rackmount                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount ( <a href="https://tripplite.eaton.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD</a> ); Tower ( <a href="https://tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND</a> ) |
| Minimum Required Rack Depth (cm)                              | 93.98                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Minimum Required Rack Depth (inches)                          | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Primary UPS Depth (mm)                                        | 762                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Primary UPS Height (mm)                                       | 131                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Primary UPS Width (mm)                                        | 445                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Shipping Dimensions (hwd / in.)                               | 6.89 x 23.70 x 33.35                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Shipping Weight (kg)                                          | 74.16                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Unit Dimension Details                                        | Minimum required rack depth assumes 127mm / 5 in. additional depth for AC input/output cabling; See submittal drawing for additional dimension detail                                                                                                                                                                                                                                                                                               |
| UPS Housing Material                                          | Sheet metal                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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| UPS Power Module Dimensions (hwd, in.)            | 5.14 x 17.5 x 30                                                                                                                                                                                                 |
| UPS Power Module Weight (kg)                      | 53.57                                                                                                                                                                                                            |
| UPS Power Module Weight (lbs.)                    | 118.1                                                                                                                                                                                                            |
| Unit Weight (lbs.)                                | 117.300                                                                                                                                                                                                          |
| Unit Weight (kg)                                  | 53.21                                                                                                                                                                                                            |
| <b>ENVIRONMENTAL</b>                              |                                                                                                                                                                                                                  |
| Operating Temperature Range                       | 32° to 104°F (0° to 40°C)                                                                                                                                                                                        |
| Storage Temperature Range                         | 5° to 122°F (-15° to 50°C)                                                                                                                                                                                       |
| Relative Humidity                                 | 5 to 95%, non-condensing                                                                                                                                                                                         |
| AC Mode BTU / Hr. (Full Load)                     | 1300                                                                                                                                                                                                             |
| AC Mode Efficiency Rating (100% Load)             | >94%                                                                                                                                                                                                             |
| AC Economy Mode Efficiency Rating (100% Load)     | >98%                                                                                                                                                                                                             |
| Operating Elevation (ft.)                         | Up to 6562 ft.                                                                                                                                                                                                   |
| Audible Noise                                     | 67.1dB (full load) / 53dB (no load) front side 1m                                                                                                                                                                |
| Operating Elevation (m)                           | Up to 2000m                                                                                                                                                                                                      |
| <b>COMMUNICATIONS</b>                             |                                                                                                                                                                                                                  |
| Network Management Cards                          | &nbsp;<a class="productLink" href="//tripplite.eaton.com/network-interface-card-for-select-tripp-lite-ups-systems~WEBCARDLXMINI">WEBCARDLXMINI</a>&nbsp;                                                         |
| Network Monitoring Port Description               | Includes Pre-installed WEBCARDLXMINI network management card; DB9 port supports RS-232 and Contact-closure signaling                                                                                             |
| PowerAlert Software                               | For local monitoring via the UPS's built-in communication ports, download PowerAlert software at <a href="https://tripplite.eaton.com/products/power-alert">https://tripplite.eaton.com/products/power-alert</a> |
| Communications Cable                              | USB, DB9 serial and EPO cables included                                                                                                                                                                          |
| WatchDog Compatibility                            | Yes                                                                                                                                                                                                              |
| Network Management Card Description               | Network management card included                                                                                                                                                                                 |
| Communications Interface                          | Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled)                                                                               |
| <b>LINE / BATTERY TRANSFER</b>                    |                                                                                                                                                                                                                  |
| Transfer Time                                     | Online to Battery mode: 0 ms. (Zero transfer time)                                                                                                                                                               |
| Transfer Time (Economy Mode)                      | Online to Eco mode: 2 milliseconds / Eco to Battery mode: 8 milliseconds                                                                                                                                         |
| Low Voltage Transfer to Battery Power (Setpoint)  | 156V (full load) / 100V (50% load or less, derates linearly)                                                                                                                                                     |
| High Voltage Transfer to Battery Power (Setpoint) | 275V                                                                                                                                                                                                             |

| FEATURES & SPECIFICATIONS                                   |                                                                                                                                                                        |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported                                                                                                                                         |
| High Availability UPS Features                              | Auto Probe Monitoring and Reboot (requires WEBCARDLXMINI); Automatic inverter bypass; Hot swappable batteries; Surge/noise protection; Zero transfer time              |
| Green Energy-Saving Features                                | High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation; Support for daily startup and shutoff |
| APPLICATIONS                                                |                                                                                                                                                                        |
| UPS Applications                                            | Large Network; Mission Critical Applications                                                                                                                           |
| STANDARDS & COMPLIANCE                                      |                                                                                                                                                                        |
| Product Certifications                                      | RETIE (Colombia); CSA (Canada); NOM (Mexico); UL 1778                                                                                                                  |
| Product Compliance                                          | RoHS; CE (Europe); ENERGY STAR Qualified; FCC Part 15 Class A (USA); Trade Agreements Act (TAA)                                                                        |
| WARRANTY & SUPPORT                                          |                                                                                                                                                                        |
| Product Warranty Period (Worldwide)                         | 2-year limited warranty                                                                                                                                                |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico)  | \$250,000&nbsp;<a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>&nbsp;                                    |